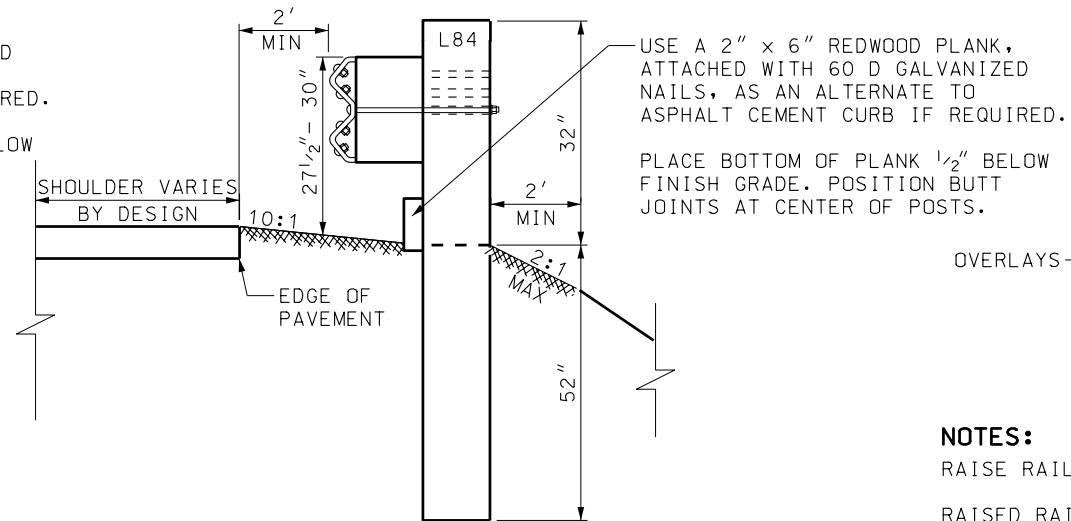


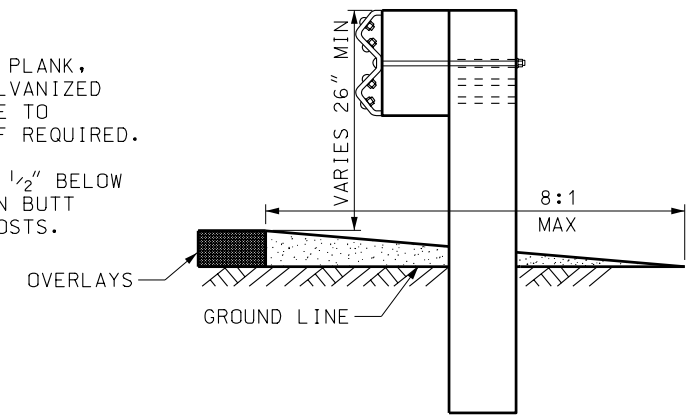
**INITIAL INSTALLATION**  
USE 72" LONG POSTS

\* NOTE.  
2' MINIMUM OR PLACE AS FAR OFF  
PAVEMENT EDGE AS PRACTICAL.



**INITIAL LONG POST INSTALLATION**  
USE 84" LONG POSTS

NOTE:  
USE THIS INSTALLATION WHEN THE  
MINIMUM 2' DEFLECTION AREA  
BEHIND RAIL CANNOT BE PROVIDED.



RAIL ELEMENT RAISED

NOTES:

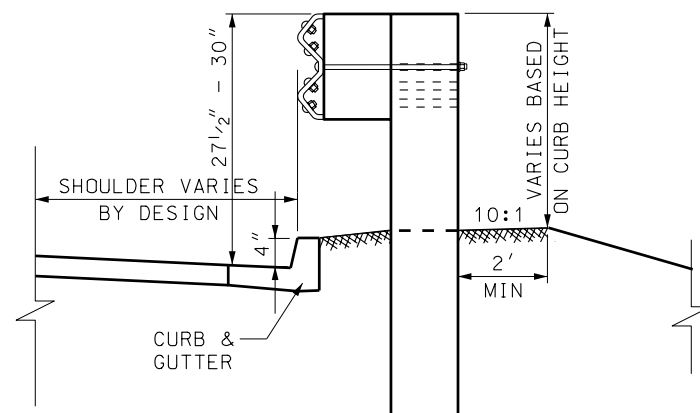
RAISE RAIL ELEMENT WHEN OVERLAY IS REQUIRED.

RAISED RAIL ELEMENT WILL ACCOMMODATE 6" TO 8" OF  
OVERLAY MATERIAL.

SLOPE OF SHOULDER INTO FACE OF RAIL NOT TO EXCEED 8:1.

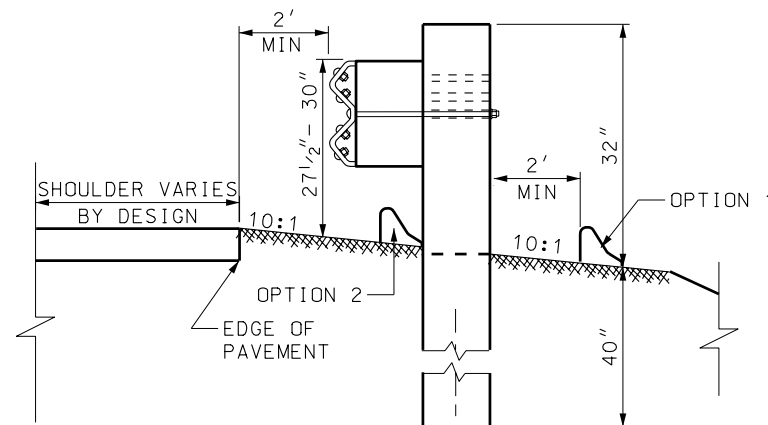
RAISE REDWOOD PLANKING WHEN REQUIRED.

RAISING THE RAIL ELEMENT TO MAXIMUM HEIGHT REQUIRED  
BEFORE THE MINIMUM HEIGHT OF THE RAIL ELEMENT ABOVE  
GROUND LEVEL CAN BE REDUCED TO THE MINIMUM OF 25".



INSTALLATION W/CURB & GUTTER  
USE 72" LONG POSTS

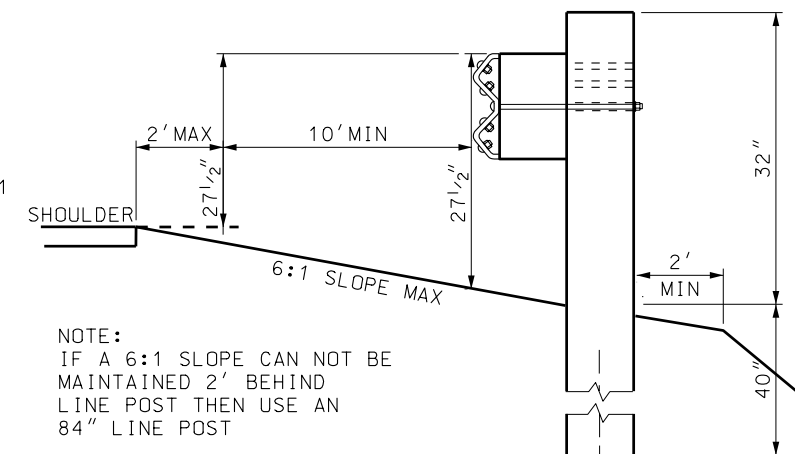
NOTE:  
USE A MAXIMUM 4" CURB HEIGHT.  
PLACE TOP FACE OF CURB EVEN  
WITH FACE OF RAIL ELEMENT



INSTALLATION  
W/ASPHALT CONCRETE CURB  
USE 72" LONG POSTS

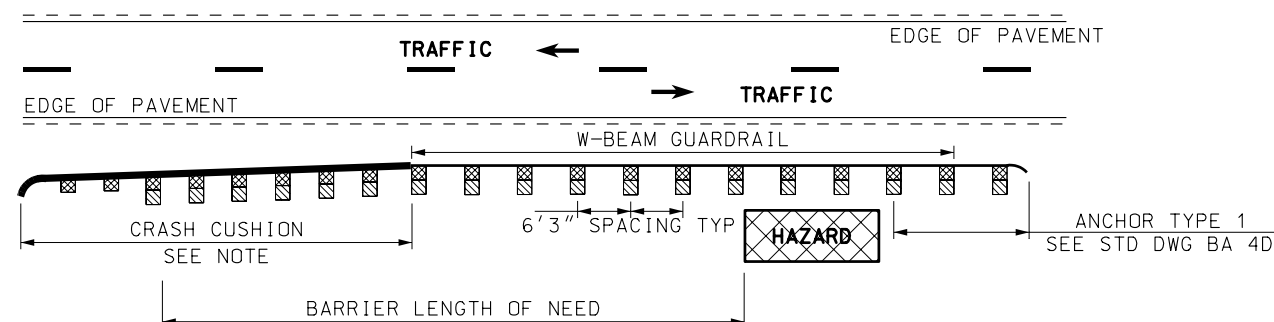
OPTION 1: PREFERRED INSTALLATION.

OPTION 2: PLACE FACE OF ASPHALT CONCRETE CURB EVEN WITH FACE OF RAIL OR BEHIND FACE OF RAIL.



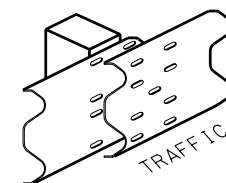
## OFFSET BARRIER INSTALLATION

NOTE:  
IF A 6:1 SLOPE CAN NOT BE  
MAINTAINED 2' BEHIND  
LINE POST THEN USE AN  
84" LINE POST

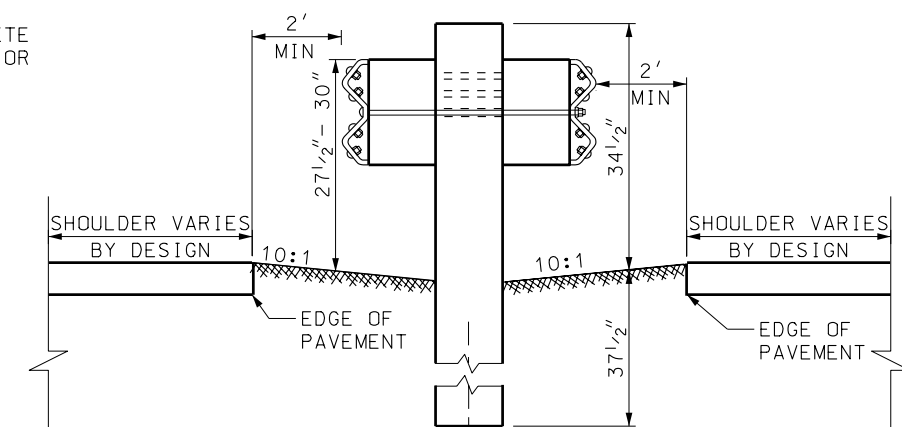


## TYPICAL INSTALLATION

NOTE:  
CRASH CUSHION REQUIRED WHEN BARRIER END IS WITHIN 1.2 TIMES  
AASHTO ROADSIDE DESIGN GUIDE CLEAR ZONE.



SPLICE LAP DETAIL



MEDIAN BARRIER

NOTES:  
RAISE BOTH RAIL ELEMENTS AS PER  
RAISE ELEMENT DETAIL WHEN REQUIRED.

ATTACH REQUIRED DELINEATION ON THE POST.

[illegible]

UTAH DEPARTMENT OF TRANSPORTATION  
STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION  
SALT LAKE COUNTY

RECOMMENDED FOR APPROVAL \_\_\_\_\_ JAN. 01, 2005  
DATE

CHAIRMAN STANDARDS COMMITTEE \_\_\_\_\_ JAN. 01, 2005  
DATE

APPROVED \_\_\_\_\_  
DEPUTY DIRECTOR

## W-BEAM GUARDRAIL INSTALLATIONS

STANDARD DRAWING TITLE

STD DWG  
BA 4E